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Bro Nati		Number: LS-PPS-0015	Revision:	
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Subject: <u>SDL</u> <u>Laser</u> II	nterlock Test			
Prepared/ M. Buckle Approved By:	y <b>Prepared</b> / S.Buda <b>Approved By:</b>		Revisi	on/Periodic Review Log
			*Approval signatures or	n file with master copy.
Test Reason:		Test Result:	□ Daggad	□ Failad
			□ Passed	☐ Failed
Test Date:		Test Type: Start Time:	☐ Full	☐ Partial h Time:
Tester 1:		Assistant 1:	FIIIIS	n rime.
Tester 2:		Assistant 1:		
PREPARATION:				
Obtain system reset key	and wear shoe covers			
Laser Room:				
Press CS-2 located	arch button located on the East wa d on the North wall. In and press the Complete Search I Observe the audible warni seconds.	Button.		
2. Press the Laser Po	wer Trip reset button.			
	Interlocked sign is illumin			
	Laser Room secure light is	s illuminated o	on the	
	main control box.  Doors light is not illumina	ted		
	Laser Power Trip light out			-
	Laser rower rrip light out	•		
3. Open the outside of	loor and observe:			
	Interlocked sign goes out.			
	Laser Room secure light g	oes out.		
	A Chain Fault is illuminate	ed.		
	B Chain Fault is illuminate	ed.		
	Laser Power Trip light is i			
	Intermittent audible alarm	sounds for 5 s	seconds.	
1. Press CS-2				
11000 00 2	The LED on button box do	oes not illumir	nate	
Exit the laser roon		, es not munin	<u></u>	
5. Press Complete Se				
. 1100 compiete 00	LED on button box does il	luminate		
	The interlock does not sec			

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6.	Pres Exit Pres Ope		North wall.  h Button.  the door with	nin the tir	me-out perio	d and press the		
7.	Pres		Door Bypass	s #1 light				
	Ope	en the outside door to	the laser roo The interloc		s active			
8.		er the vestibule and cl ss the Access/Reset #1						
9.	Ope	en the inside door and as the Access/Reset bu	The LED on The Door By illuminates enter the las	ypass #2 er room. he laser i	light on the room.	main box		
10	Rev	erse steps 8 & 9 to ex	it the laser ro		tained.			
11.	on t Ope		•	he time fi	rom when th	e button was	i	
12.	Onc		press the Ac	cess/Res when the	et button #2 e button was	and open the pressed.		

			SDI	Laser I	nterlock T	est				
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1.2	<b>.</b> .	C C 1, 1 1	d C 11	. 1						
13.	Veri	fy faults are cleared		_		~				
			Faults are cl supplies	eared on	tne two Ya	g power	r			
			Faults are cl	eared on	Ti Saphire	nower s	supply			
	Rese	et Laser Power Trip	1 44115 41 6 61	• • • • • • • • • • • • • • • • • • • •	i i supilii v	powers	ou.pp.j			
		e latch devices on th	e inner and o	uter door	switches.	Search	M.:			
	lasei	room. Remove hold	der from swit	ch #1.			Main Inner	Main Outer	Aux Inner	Aux Outer
			Interlock dro	ops out.						
			The A Chair	n Fault lig	ght is illum	inated,				
			The laser ma		ers interloc	k has				
			been interru	pted						
	<b>a</b>			""						
14.	Sear	ch the laser room, re			.1.4 ( - (11)		NIA			
			The B Chair	i Fault lig	gnt is illumi	inated.	NA			
	_									
		nove the holders from room and open and			tand inside	the				
	iasci	100m and open and	The door sw		erate freely	and				
			each makes							
			opened						<u> </u>	
									Inner	Outer
		ch the Laser Room.	•			1.1	. 0			
		s the Interlock Off b r door.	utton then op	en the In	ner door an	d then r	epeat for			
	ouic	1 4001.	The interloc	k sign go	es out whe	n the bu	itton is			
			pressed.	9.8 80	05 000 1110					
			There is no	audible w	arning whe	en the d	oor is			
	D	.1	opened.							
	Kese	et laser power trip								
17.	Sear	ch the laser room. P	ress an emerg	gency stoj	o					External
							ES1	ES2	ES3	Control Panel
			The interloc	k drops o	ut.			~~		_ ******
			The laser po	-					<del></del>	
			E-Stop light						<del></del>	
			A Chain Fau	ılt					-	-
			B Chain Fau	ılt						
	With	n one emergency sto	p button pres	sed in, pr	ess the star	t				
	sear	ch button then CS-2.								
	Exit	the room and press								
	D	ot the emerge t	The interloc	k does no	ot activate.					
	Kese	et the emergency sto	p outton.							

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		l.			I			
	Break Gun Secu	urity.						
17.	Gun Hutch:							
17.	Press the Start S	Search butt	ton located in	nside of	the Gun Hutch	l.		
					the button box			
	Exit the hutch, o		•					-
			The audible	warning	is a minimum	of 15		
			seconds.					
					ght is illuminat			
		1	A Chain Fau	It and B	Chain Fault li	ghts are out.		
18.	Open the Gun H	Hutch door	•					
10.	open in our r		Secure light	goes out	i.			
			"Interlocked"	_				
			A-chain faul					
		]	B-chain fault	t light co	omes on			
			The audible	warning	does not activa	ate		
10	D 41 4 4	1.1.44						
19.	Press the start so			otion nil	at light stays a	n for no		
			more than 1		ot light stays o	11 101 110		
	Press CS-E.	-						·
		]	Interlock doe	es not ac	tivate			
20.	Press interior se	aarah hutta	ng in order i	n tha Gu	un hutah alaga	the door		
20.	press CS-E, not							
	again. (This mu 19)							
	17)	]	Interlock doe	es not ac	tivate			
21.	Attempt to oper	n the chutte	er with the C	un Huto	h not secured			
21.	recempt to open		The shutter of					
		•	The shatter t	1005 1101	орен.			-
22.	Secure the Gun	Hutch and	d secure the l	aser roo	m.			
	Open the shutte			wer.				
	Open the Gun H			. •		00		
			-	-	d both lasers go			
			i ne warning	sonoler	t sounds for fiv	e seconds.		
23.	Secure the gun l	hutch, secu	ure the Laser	room, r	eset the laser p	ower, and		
	open the Gun H	Iutch door.			_			
		-	The laser por	wer does	s not trip			

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	Place switch holders on the doors.	the gun hutch de	oors and pl	ace latch	n devices	s on			
(	Secure the gun hutch.  Open the shutter and pr  Reset Emergency stop.	ess an emergency The shutter clo The Gun secur Laser power tr E-Stop light ca Gun hutch can	oses.  Tity drops or ip light is commot be reserved.	ut. on set w/o S		<b>.</b>		Inside ES	Outside ES
								Door	
	Secure the Gun Hutch, nolder from switch 2.	B Chain Fault Shutter closes Laser PWR do (Trip light is C	light illum		ne	1	2	3	4
26. F	Remove the holder from	n switch 1.  A Chain Fault Shutter closes. Laser PWR tri	-						

**SDL** Laser Interlock Test

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